

=====

Sequence Listing was accepted.

If you need help call the Patent Electronic Business Center at (866)
217-9197 (toll free).

Reviewer: markspencer

Timestamp: [year=2008; month=9; day=17; hr=15; min=44; sec=49; ms=497;]

=====

Application No: 10767561

Version No: 3.0

Input Set:

Output Set:

Started: 2008-08-18 17:31:18.912

Finished: 2008-08-18 17:31:19.839

Elapsed: 0 hr(s) 0 min(s) 0 sec(s) 927 ms

Total Warnings: 8

Total Errors: 0

No. of SeqIDs Defined: 17

Actual SeqID Count: 17

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (9)
W 213	Artificial or Unknown found in <213> in SEQ ID (10)
W 213	Artificial or Unknown found in <213> in SEQ ID (11)
W 213	Artificial or Unknown found in <213> in SEQ ID (12)
W 213	Artificial or Unknown found in <213> in SEQ ID (13)
W 213	Artificial or Unknown found in <213> in SEQ ID (14)
W 213	Artificial or Unknown found in <213> in SEQ ID (15)
W 213	Artificial or Unknown found in <213> in SEQ ID (16)

SEQUENCE LISTING

<110> Freeman, Gordon J
Nadler, Lee M
Gray, Gary S

<120> Tumor Cells Modified To Express B7-2 With Increased
Immunogenicity And Uses Therefor

<130> WYS-018.04

<140> 10767561

<141> 2004-01-28

<150> 08/101,624

<151> 1993-07-26

<150> 08/109,393

<151> 1993-08-19

<160> 17

<170> PatentIn version 3.5

<210> 1

<211> 1120

<212> DNA

<213> Homo sapiens

<400> 1

cacaggggtga aagcttttgc tctctgctgc tgtaacaggg actagcacag acacacggat	60
gagtgggggtc atttccagat attagggtcac agcagaagca gccaaaatgg atccccagtg	120
cactatggga ctgagtaaca ttctctttgt gatggccttc ctgctctctg gtgctgctcc	180
tctgaagatt caagcttatt tcaatgagac tgcagacctg ccatgccaat ttgcaaactc	240
tcaaaaccaa agcctgagtg agctagtagt attttggcag gaccaggaaa acttggttct	300
gaatgaggta tacttaggca aagagaaatt tgacagtgtt cattccaagt atatgggccg	360
cacaagtttt gattcggaca gttggaccct gagacttcac aatcttcaga tcaaggacaa	420
gggcttgtat caatgtatca tccatcacia aaagcccaca ggaatgattc gcatccacca	480
gatgaattct gaactgtcag tgcttgctaa cttcagtcaa cctgaaatag taccaatttc	540
taatataaca gaaaatgtgt acataaattt gacctgctca tctatacacg gttaccacaga	600
acctaagaag atgagtgttt tgctaagaac caagaattca actatcgagt atgatgggtat	660
tatgcagaaa tctcaagata atgtcacaga actgtacgac gtttccatca gcttgtctgt	720
ttcattccct gatgttacga gcaatatgac catcttctgt attctggaaa ctgacaagac	780

```

gcggctttta ttttcacctt tctctataga gcttgaggac cctcagcctc cccagacca      840
cattccttgg attacagctg tacttccaac agttattata tgtgtgatgg ttttctgtct      900
aattctatgg aaatggaaga agaagaagcg gcctcgcaac tcttataaat gtggaaccaa      960
cacaatggag agggaagaga gtgaacagac caagaaaaga gaaaaaatcc atatacctga     1020
aagatctgat gaagcccagc gtgtttttta aagttcgaag acatcttcat gcgacaaaag     1080
tgatacatgt ttttaattaa agagtaaagc ccaaaaaaaaaa                        1120

```

```

<210>  2
<211> 329
<212>  PRT
<213>  Homo sapiens

```

```

<400>  2

```

```

Met Asp Pro Gln Cys Thr Met Gly Leu Ser Asn Ile Leu Phe Val Met
1              5              10              15

```

```

Ala Phe Leu Leu Ser Gly Ala Ala Pro Leu Lys Ile Gln Ala Tyr Phe
          20              25              30

```

```

Asn Glu Thr Ala Asp Leu Pro Cys Gln Phe Ala Asn Ser Gln Asn Gln
          35              40              45

```

```

Ser Leu Ser Glu Leu Val Val Phe Trp Gln Asp Gln Glu Asn Leu Val
          50              55              60

```

```

Leu Asn Glu Val Tyr Leu Gly Lys Glu Lys Phe Asp Ser Val His Ser
65              70              75              80

```

```

Lys Tyr Met Gly Arg Thr Ser Phe Asp Ser Asp Ser Trp Thr Leu Arg
          85              90              95

```

```

Leu His Asn Leu Gln Ile Lys Asp Lys Gly Leu Tyr Gln Cys Ile Ile
          100              105              110

```

```

His His Lys Lys Pro Thr Gly Met Ile Arg Ile His Gln Met Asn Ser
          115              120              125

```

```

Glu Leu Ser Val Leu Ala Asn Phe Ser Gln Pro Glu Ile Val Pro Ile
          130              135              140

```

```

Ser Asn Ile Thr Glu Asn Val Tyr Ile Asn Leu Thr Cys Ser Ser Ile

```

145 150 155 160

His Gly Tyr Pro Glu Pro Lys Lys Met Ser Val Leu Leu Arg Thr Lys
165 170 175

Asn Ser Thr Ile Glu Tyr Asp Gly Ile Met Gln Lys Ser Gln Asp Asn
180 185 190

Val Thr Glu Leu Tyr Asp Val Ser Ile Ser Leu Ser Val Ser Phe Pro
195 200 205

Asp Val Thr Ser Asn Met Thr Ile Phe Cys Ile Leu Glu Thr Asp Lys
210 215 220

Thr Arg Leu Leu Ser Ser Pro Phe Ser Ile Glu Leu Glu Asp Pro Gln
225 230 235 240

Pro Pro Pro Asp His Ile Pro Trp Ile Thr Ala Val Leu Pro Thr Val
245 250 255

Ile Ile Cys Val Met Val Phe Cys Leu Ile Leu Trp Lys Trp Lys Lys
260 265 270

Lys Lys Arg Pro Arg Asn Ser Tyr Lys Cys Gly Thr Asn Thr Met Glu
275 280 285

Arg Glu Glu Ser Glu Gln Thr Lys Lys Arg Glu Lys Ile His Ile Pro
290 295 300

Glu Arg Ser Asp Glu Ala Gln Arg Val Phe Lys Ser Ser Lys Thr Ser
305 310 315 320

Ser Cys Asp Lys Ser Asp Thr Cys Phe
325

<210> 3

<211> 1151

<212> DNA

<213> Mus musculus

<400> 3

ggagcaagca gacgcgtaag agtggctcct gtaggcagca cggacttgaa caaccagact 60

cctgtagacg tgttccagaa cttacggaag caccacgat ggaccccaga tgcaccatgg 120

gcttggcaat ccttatcttt gtgacagtct tgctgatctc agatgctggt tccgtggaga	180
cgcaagctta tttcaatggg actgcatatc tgccgtgccc atttacaaag gctcaaaaaca	240
taagcctgag tgagctggta gtatTTTggc aggaccagca aaagttgggt ctgtacgagc	300
actatTTTggg cacagagaaa cttgatagtg tgaatgccaa gtacctgggc cgcacgagct	360
ttgacaggaa caactggact ctacgacttc acaatgttca gatcaaggac atgggctcgt	420
atgattgttt tatacaaaaa aagccaccca caggatcaat tatcctccaa cagacattaa	480
cagaactgtc agtgatcgcc aacttcagtg aacctgaaat aaaactggct cagaatgtaa	540
caggaaattc tggcataaat ttgacctgca cgtctaagca aggtcacccg aaacctaaga	600
agatgtatTT tctgataact aattcaacta atgagtatgg tgataacatg cagatatcac	660
aagataatgt cacagaactg ttcagtatct ccaacagcct ctctctttca ttcccggatg	720
gtgtgtggca tatgaccgtt gtgtgtgttc tggaaacgga gtcaatgaag atttcctcca	780
aacctctcaa tttcactcaa gagtttccat ctctctaaac gtattggaag gagattacag	840
cttcagttac tgtggccctc ctcttTgtga tgctgctcat cattgtatgt cacaagaagc	900
cgaatcagcc tagcaggccc agcaacacag cctctaagtt agagcgggat agtaacgctg	960
acagagagac tatcaacctg aaggaacttg aaccccaaat tgcttcagca aaaccaaagt	1020
cagagtgaag gcagtgagag cctgaggaaa gagttaaaaa ttgctttgcc tgaaataaga	1080
agtgcagagt ttctcagaat tcaaaaatgt tctcagctga ttggaattct acagttgaat	1140
aattaaagaa c	1151

<210> 4
 <211> 309
 <212> PRT
 <213> Mus musculus

<400> 4

Met	Asp	Pro	Arg	Cys	Thr	Met	Gly	Leu	Ala	Ile	Leu	Ile	Phe	Val	Thr
1				5				10					15		

Val	Leu	Leu	Ile	Ser	Asp	Ala	Val	Ser	Val	Glu	Thr	Gln	Ala	Tyr	Phe
			20					25					30		

Asn	Gly	Thr	Ala	Tyr	Leu	Pro	Cys	Pro	Phe	Thr	Lys	Ala	Gln	Asn	Ile
		35					40				45				

Ser	Leu	Ser	Glu	Leu	Val	Val	Phe	Trp	Gln	Asp	Gln	Gln	Lys	Leu	Val
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

50

55

60

Leu Tyr Glu His Tyr Leu Gly Thr Glu Lys Leu Asp Ser Val Asn Ala
 65 70 75 80

Lys Tyr Leu Gly Arg Thr Ser Phe Asp Arg Asn Asn Trp Thr Leu Arg
 85 90 95

Leu His Asn Val Gln Ile Lys Asp Met Gly Ser Tyr Asp Cys Phe Ile
 100 105 110

Gln Lys Lys Pro Pro Thr Gly Ser Ile Ile Leu Gln Gln Thr Leu Thr
 115 120 125

Glu Leu Ser Val Ile Ala Asn Phe Ser Glu Pro Glu Ile Lys Leu Ala
 130 135 140

Gln Asn Val Thr Gly Asn Ser Gly Ile Asn Leu Thr Cys Thr Ser Lys
 145 150 155 160

Gln Gly His Pro Lys Pro Lys Lys Met Tyr Phe Leu Ile Thr Asn Ser
 165 170 175

Thr Asn Glu Tyr Gly Asp Asn Met Gln Ile Ser Gln Asp Asn Val Thr
 180 185 190

Glu Leu Phe Ser Ile Ser Asn Ser Leu Ser Leu Ser Phe Pro Asp Gly
 195 200 205

Val Trp His Met Thr Val Val Cys Val Leu Glu Thr Glu Ser Met Lys
 210 215 220

Ile Ser Ser Lys Pro Leu Asn Phe Thr Gln Glu Phe Pro Ser Pro Gln
 225 230 235 240

Thr Tyr Trp Lys Glu Ile Thr Ala Ser Val Thr Val Ala Leu Leu Leu
 245 250 255

Val Met Leu Leu Ile Ile Val Cys His Lys Lys Pro Asn Gln Pro Ser
 260 265 270

Arg Pro Ser Asn Thr Ala Ser Lys Leu Glu Arg Asp Ser Asn Ala Asp
 275 280 285

Arg Glu Thr Ile Asn Leu Lys Glu Leu Glu Pro Gln Ile Ala Ser Ala
290 295 300

Lys Pro Asn Ala Glu
305

<210> 5
<211> 1491
<212> DNA
<213> Homo sapiens

<400> 5
ccaaagaaaa agtgatttgt cattgcttta tagactgtaa gaagagaaca tctcagaagt 60
ggagtcttac cctgaaatca aaggatttaa agaaaaagtg gaatttttct tcagcaagct 120
gtgaaactaa atccacaacc tttggagacc caggaacacc ctccaatctc tgtgtgtttt 180
gtaaacatca ctggaggggtc ttctacgtga gcaattggat tgtcatcagc cctgcctggt 240
ttgcacctgg gaagtgcctt ggtcttactt gggteccaaat tgttggcttt cacttttgac 300
cctaagcatc tgaagccatg ggccacacac ggaggcaggg aacatcacca tccaagtgtc 360
catacctgaa tttctttcag ctcttggtgc tggetggtct ttctcacttc tgttcagggtg 420
ttatccacgt gaccaaggaa gtgaaagaag tggcaacgct gtctctgtgg cacaatgttt 480
ctggttgaaga gctggcacaa actcgcctct actggcaaaa ggagaagaaa atggtgctga 540
ctatgatgtc tggggacatg aatatatggc ccgagtacaa gaaccggacc atctttgata 600
tcactaataa cctctccatt gtgatcctgg ctctgcgcc atctgacgag ggcacatacg 660
agtgtgttgt tctgaagtat gaaaaagacg ctttcaagcg ggaacacctg gctgaagtga 720
cgttatcagt caaagctgac ttccctacac ctagtatatc tgactttgaa attccaactt 780
ctaataattag aaggataatt tgctcaacct ctggagggtt tccagagcct cacctctcct 840
ggtttgaaaa tggagaagaa ttaaattgcca tcaacacaac agtttcccaa gatcctgaaa 900
ctgagctcta tgctgttagc agcaaactgg atttcaatat gacaaccaac cacagcttca 960
tgtgtctcat caagtatgga catttaagag tgaatcagac cttcaactgg aatacaacca 1020
agcaagagca ttttcttgat aacctgctcc catcctgggc cattacctta atctcagtaa 1080
atggaatttt tgtgatatgc tgcctgacct actgctttgc cccaagatgc agagagagaa 1140
ggaggaatga gagattgaga agggaaagtg tacgccctgt ataacagtgt ccgcagaagc 1200
aaggggctga aaagatctga aggtagcctc cgtcatctct tctgggatac atggatcgtg 1260


```

gggatcatga ggcattcttc ccttaacaaa tttaaagctgt tttaccacct acctcacctt      1320
cttaaaaacc tctttcagat taagctgaac agttacaaga tggctggcat ccctctcctt      1380
tctccccata tgcaatttgc ttaatgtaac ctcttctttt gccatgtttc cattctgcca      1440
tcttgaattg tcttgtcagc caattcatta tctattaaac actaatttga g                1491

```

```

<210> 6
<211> 288
<212> PRT
<213> Homo sapiens

```

```

<400> 6

```

```

Met Gly His Thr Arg Arg Gln Gly Thr Ser Pro Ser Lys Cys Pro Tyr
1              5              10              15

```

```

Leu Asn Phe Phe Gln Leu Leu Val Leu Ala Gly Leu Ser His Phe Cys
          20              25              30

```

```

Ser Gly Val Ile His Val Thr Lys Glu Val Lys Glu Val Ala Thr Leu
          35              40              45

```

```

Ser Cys Gly His Asn Val Ser Val Glu Glu Leu Ala Gln Thr Arg Ile
          50              55              60

```

```

Tyr Trp Gln Lys Glu Lys Lys Met Val Leu Thr Met Met Ser Gly Asp
65              70              75              80

```

```

Met Asn Ile Trp Pro Glu Tyr Lys Asn Arg Thr Ile Phe Asp Ile Thr
          85              90              95

```

```

Asn Asn Leu Ser Ile Val Ile Leu Ala Leu Arg Pro Ser Asp Glu Gly
          100              105              110

```

```

Thr Tyr Glu Cys Val Val Leu Lys Tyr Glu Lys Asp Ala Phe Lys Arg
          115              120              125

```

```

Glu His Leu Ala Glu Val Thr Leu Ser Val Lys Ala Asp Phe Pro Thr
          130              135              140

```

```

Pro Ser Ile Ser Asp Phe Glu Ile Pro Thr Ser Asn Ile Arg Arg Ile
145              150              155              160

```

Ile Cys Ser Thr Ser Gly Gly Phe Pro Glu Pro His Leu Ser Trp Leu
165 170 175

Glu Asn Gly Glu Glu Leu Asn Ala Ile Asn Thr Thr Val Ser Gln Asp
180 185 190

Pro Glu Thr Glu Leu Tyr Ala Val Ser Ser Lys Leu Asp Phe Asn Met
195 200 205

Thr Thr Asn His Ser Phe Met Cys Leu Ile Lys Tyr Gly His Leu Arg
210 215 220

Val Asn Gln Thr Phe Asn Trp Asn Thr Thr Lys Gln Glu His Phe Pro
225 230 235 240

Asp Asn Leu Leu Pro Ser Trp Ala Ile Thr Leu Ile Ser Val Asn Gly
245 250 255

Ile Phe Val Ile Cys Cys Leu Thr Tyr Cys Phe Ala Pro Arg Cys Arg
260 265 270

Glu Arg Arg Arg Asn Glu Arg Leu Arg Arg Glu Ser Val Arg Pro Val
275 280 285

<210> 7
<211> 1716
<212> DNA
<213> Mus musculus

<400> 7
gagttttata cctcaataga ctcttactag tttctctttt tcaggttggtg aaactcaacc 60
ttcaaagaca ctctgttcca tttctgtgga ctaataggat catcttttagc atctgccggg 120
tggatgccat ccaggcttct ttttctacat ctctgtttct cgatttttgt gagcctagga 180
ggtgcctaag ctccattggc tctagattcc tggctttccc catcatgttc tccaaagcat 240
ctgaagctat ggcttgcaat tgtcagttga tgcaggatac accactcctc aagtttccat 300
gtccaaggct caatcttctc tttgtgctgc tgattcgtct ttcacaagtg tcttcagatg 360
ttgatgaaca actgtccaag tcagtgaaag ataaggattt gctgccttgc cgttacaact 420
ctcctcatga agatgagtct gaagaccgaa tctactggca aaaacatgac aaagtgggtgc 480
tgtctgtcat tgctgggaaa ctaaaagtgt ggcccagagta taagaaccgg actttatatg 540
acaacactac ctactctctt atcatcctgg gcctggctct ttcagaccgg ggcacataca 600

gctgtgtcgt tcaaaagaag gaaagaggaa cgtatgaagt taaacacttg gcttttagtaa	660
agttgtccat caaagctgac ttctctaccc ccaacataac tgagtctgga aacccatctg	720
cagacactaa aaggattacc tgctttgctt ccggggggtt cccaaagcct cgcttctctt	780
ggttggaaaa tggaagagaa ttacctggca tcaatacgac aatttcccag gatcctgaat	840
ctgaattgta caccattagt agccaactag atttcaatac gactcgcaac cacaccatta	900
agtgtctcat taaatatgga gatgctcacg tgtcagagga cttcacctgg gaaaaacccc	960
cagaagaccc tctgatagc aagaacacac ttgtgctctt tggggcagga ttcggcgag	1020
taataacagt cgtcgtcatc gttgtcatca tcaaagtctt ctgtaagcac agaagctgtt	1080
tcagaagaaa tgaggcaagc agagaaacaa acaacagcct taccttcggg cctgaagaag	1140
cattagctga acagaccgtc ttcctttagt tcttctctgt ccatgtggga tacatggtat	1200
tatgtggctc atgaggtaca atctttcttt cagcacctg ctagctgatc tttcggacaa	1260
cttgacacaa gatagagtta actgggaaga gaaagccttg aatgaggatt tctttccatc	1320
aggaagctac gggcaagttt gctgggcctt tgattgcttg atgactgaag tggaaaggct	1380
gagcccactg tgggtgggtgc tagccctggg caggggcagg tgacctggg tggataaga	1440
aaaagagctg tcactaaaag gagaggtgcc tagtcttact gcaacttgat atgtcatgtt	1500
tggttgggtgt ctgtgggagg cctgcccttt tctgaagaga agtgggtggga gagtggatgg	1560
ggtgggggca gaggaaaagt ggggggagagg gcctgggagg agaggaggga gggggacggg	1620
gtgggggtgg ggaaaactat ggttgggatg taaaaacgga taataatata aatattaaat	1680
aaaaagagag tattgagcaa aaaaaaaaaa aaaaaa	1716

<210> 8
 <211> 306
 <212> PRT
 <213> Mus musculus

<400> 8

Met	Ala	Cys	Asn	Cys	Gln	Leu	Met	Gln	Asp	Thr	Pro	Leu	Leu	Lys	Phe
1				5					10					15	

Pro	Cys	Pro	Arg	Leu	Ile	Leu	Leu	Phe	Val	Leu	Leu	Ile	Arg	Leu	Ser
			20					25					30		

Gln	Val	Ser	Ser	Asp	Val	Asp	Glu	Gln	Leu	Ser	Lys	Ser	Val	Lys	Asp
		35					40							45	

Lys Val Leu Leu Pro Cys Arg Tyr Asn Ser Pro His Glu Asp Glu Ser
50 55 60

Glu Asp Arg Ile Tyr Trp Gln Lys His Asp Lys Val Val Leu Ser Val
65 70 75 80

Ile Ala Gly Lys Leu Lys Val Trp Pro Glu Tyr Lys Asn Arg Thr Leu
85 90 95

Tyr Asp Asn Thr Thr Tyr Ser Leu Ile Ile Leu Gly Leu Val Leu Ser
100 105 110

Asp Arg Gly Thr Tyr Ser Cys Val Val Gln Lys Lys Glu Arg Gly Thr
115 120 125

Tyr Gly Val Lys His Leu Ala Leu Val Lys Leu Ser Ile Lys Ala Asp
130 135 140

Phe Ser Thr Pro Asn Ile Thr Glu Ser Gly Asn Pro Ser Ala Asp Thr
145 150 155 160

Lys Arg Ile Thr Cys Phe Ala Ser Gly Gly Phe Pro Lys Pro Arg Phe
165 170 175

Ser Trp Leu Glu Asn Gly Arg Glu Leu Pro Gly Ile Asn Thr Thr Ile
180 185 190

Ser Gln Asp Pro Glu Ser Glu Leu Tyr Thr Ile Ser Ser Gln Leu Asp
195